



STATE OF ALABAMA

DEPARTMENT OF FINANCE  
DIVISION OF PURCHASING

INVITATION TO BID

INVITATION TO BID NO: 10-R-2213741

REQ. AGENCY : 004008  
WILDLIFE & FRESHWATER FISHERIES  
AGENCY REQ. NO. : 030030  
T-NUMBER :  
DATE ISSUED : 10/26/09  
VENDOR NO. :  
VENDOR PHONE NO. :  
SNAP REQ. NO. : 1430664  
BUYER NAME : CRIST WATTS

FOR: GRADER, MOTOR, ARTICULATED

BUYER PHONE NO. : (334) 242-4291-  
PURCHASING PHONE NO: (334) 242-7250

BID MUST BE RECEIVED BEFORE:  
DATE: 11/17/09 TIME: 5:00 PM

BIDS WILL BE PUBLICLY OPENED:  
DATE: 11/18/09 TIME: 10:00 AM

TO BE COMPLETED BY VENDOR

INFORMATION IN THIS SECTION SHOULD BE PROVIDED, AS APPROPRIATE. BID RESPONSE  
MUST BE IN INK OR TYPED WITH ORIGINAL SIGNATURE AND NOTARIZATION.

1. DELIVERY: CAN BE MADE \_\_\_\_\_ DAYS OR \_\_\_\_\_ WEEKS AFTER RECEIPT OF ORDER
2. TERMS: \_\_\_\_\_(DISCOUNTS ARE TAKEN WITHOUT REGARD TO DATE OF PAYMENT.)
3. PRICE VALID FOR ACCEPTANCE WITHIN \_\_\_\_\_ DAYS.
4. VENDOR QUOTATION REFERENCE NUMBER, IF ANY: \_\_\_\_\_  
(THIS NUMBER WILL APPEAR ON THE PURCHASE ORDER.)
5. E-MAIL ADDRESS: \_\_\_\_\_  
INTERNET WEBSITE: \_\_\_\_\_
6. GENERAL CONTRACTOR'S LICENSE NO: \_\_\_\_\_  
TYPE OF G.C. LICENSE: \_\_\_\_\_

\*\*\*\*\* IMPORTANT NOTE: \*\*\*\*\*

BIDDERS MUST COMPLY WITH ALL "BID RESPONSE INSTRUCTIONS" ON PAGE 2, TO INCLUDE  
ITEM 7 - COPY REQUIREMENT.

RETURN INVITATION TO BID:

US MAIL

STATE OF ALABAMA  
DEPARTMENT OF FINANCE  
DIVISION OF PURCHASING  
P O BOX 302620  
MONTGOMERY, AL 36130-2620

COURIER

STATE OF ALABAMA  
DIVISION OF PURCHASING  
RSA UNION BUILDING  
100 N. UNION ST., SUITE 192  
MONTGOMERY, AL 36104

SIGNATURE AND NOTARIZATION REQUIRED

I HAVE READ THE ENTIRE BID AND AGREE TO FURNISH EACH ITEM OFFERED AT THE PRICE QUOTED.  
I HERBY AFFIRM I HAVE NOT BEEN IN ANY AGREEMENT OR COLLUSION AMONG BIDDERS IN  
RESTRAINT OF FREEDOM OF COMPETITION BY AGREEMENT TO BID AT A FIXED PRICE OR TO  
REFRAIN FROM BIDDING.

SWORN TO AND

FEIN OR SSN

AUTHORIZED SIGNATURE (INK)

SUBSCRIBED BEFORE ME THIS

COMPANY NAME

TYPE/PRINT AUTHORIZED NAME

\_\_\_\_\_ DAY OF \_\_\_\_\_

MAIL ADDRESS

TITLE

NOTARY PUBLIC

CITY, STATE, ZIP

TOLL FREE NUMBER

TERM EXP: \_\_\_\_\_

PHONE INCLUDING AREA CODE

FAX NUMBER

STANDARD TERMS & CONDITIONS

VENDOR NAME :

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AUTHORITY:

THE DEPARTMENT OF FINANCE CODE OF ADMINISTRATIVE PROCEDURE, CHAPTER 355-4-1 EFFECTIVE DECEMBER 20, 2001 IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS DOCUMENT. TO RECEIVE A COPY CALL (334)242-7250, OR OUR WEBSITE WWW.PURCHASING.ALABAMA.GOV .

INFORMATION AND ASSISTANCE TO MINORITY BUSINESSES IN THE TECHNICAL COMPLETION OF REQUIRED FORMS MAY BE OBTAINED FROM THE OFFICE OF MINORITY BUSINESS ENTERPRISE, 1-800-447-4191.

BID (ITB) RESPONSE INSTRUCTIONS

REV: 09/18/09

1. TO SUBMIT A RESPONSIVE BID, READ THESE INSTRUCTIONS, ALL TERMS, CONDITIONS AND SPECIFICATIONS.
2. BID ENVELOPES/PACKAGES/BOXES MUST BE IDENTIFIED ON FRONT, PREFERABLY LOWER LEFT CORNER AND BE VISIBLE WITH THE BID NUMBER AND OPENING DATE. EACH INDIVIDUAL BID (IDENTIFIED BY A UNIQUE BID NUMBER) MUST BE SUBMITTED IN A SEPARATE ENVELOPE. RESPONSES TO MULTIPLE BID NUMBERS SUBMITTED IN THE SAME ENVELOPE/COURIER PACKAGE, THAT ARE NOT IN SEPARATE ENVELOPES PROPERLY IDENTIFIED, WILL BE REJECTED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR LATE BIDS FOR ANY REASON INCLUDING THOSE DUE TO POSTAL, OR COURIER SERVICE. BID RESPONSES MUST BE IN THE DIVISION OF PURCHASING OFFICE PRIOR TO THE "RECEIVE DATE AND TIME" INDICATED ON THE BID.
3. BID RESPONSES (PAGE 1, PRICE SHEET AND ADDENDUMS (WHEN SIGNATURE IS REQUIRED)) MUST BE IN INK OR TYPED ON THIS DOCUMENT. OR EXACT FORMAT WITH SIGNATURES BEING HANDWRITTEN ORIGINALS IN INK (PERSON SIGNING BID, NOTARY, AND NOTARY EXPIRATION), OR THE BID WILL BE REJECTED. UNLESS INDICATED IN THE BID, ALL PRICE PAGES MUST BE COMPLETED AND RETURNED. IF AN ITEM IS NOT BEING BID, IDENTIFY IT AS NB (NO-BID). PAGES SHOULD BE SECURED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR MISSING PAGES. FAXED BID RESPONSES WILL NOT BE ACCEPTED.
4. THE UNIT PRICE ALWAYS GOVERNS REGARDLESS OF THE EXTENDED AMOUNT. A UNIT PRICE CHANGE ON A LINE MUST BE INITIALED BY THE PERSON SIGNING THE BID, OR THAT LINE WILL BE REJECTED. THIS INCLUDES A CROSS-OUT, STRIKE-OVER, INK-OVER, WHITE-OUT, ERASURE, OR ANY OTHER METHOD CHANGING THE PRICE.
5. A "NO BID" MUST BE RETURNED TO REMAIN ON A CLASS/SUBCLASS. RETURN PAGE 1 OR NOTIFICATION PAGE MARKED "NO-BID". IDENTIFY IT ON THE ENVELOPE AS A "NO-BID". FAILING TO RESPOND TO 3 ITB'S WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. RESPONDING WITH 6 "NO-BIDS" WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. A "NO-BID" RECEIVED LATE IS CONSIDERED A NO RESPONSE.
6. THE DIVISION OF PURCHASING IS NOT RESPONSIBLE FOR MISINTERPRETATION OF DATA FAXED FROM THIS OFFICE.
7. THE DIVISION OF PURCHASING REQUIRES AN ORIGINAL AND A MINIMUM OF ONE COMPLETE EXACT COPY (TO INCLUDE SIGNATURE AND NOTARY) OF THE INVITATION-TO-BID RESPONSE. THE ORIGINAL AND THE COPY SHOULD BE SUBMITTED TOGETHER AS A BID PACKAGE. FAILURE TO MARK RESPONSES AS "ORIGINAL" AND/OR "COPY" COULD RESULT IN THE ENTIRE BID RESPONSE BEING REJECTED.
8. AN IMPROPERLY SUBMITTED BID, LATE BID, OR BID THAT IS CANCELLED ON OR BEFORE THE OPENING DATE WILL BE HELD FOR 90 DAYS AND THEN DESTROYED. THE BID MUST BE RETRIEVED DURING REGULAR WORK HOURS, MONDAY - FRIDAY, EXCEPT STATE HOLIDAYS. AFTER THE BID IS DESTROYED, THE DIVISION OF PURCHASING ASSUMES NO RESPONSIBILITY FOR THE DOCUMENT.

DISQUALIFIED/CANCELLED BID

BIDS THAT ARE IMPROPERLY SUBMITTED OR RECEIVED LATE WILL BE A RESPONSE FOR RECORD, BUT WILL NOT BE RETURNED OR A NOTIFICATION MAILED.

THE FOLLOWING IS A PARTIAL LIST WHEREBY A BID RESPONSE WILL BE DISQUALIFIED:

BID NUMBER NOT ON FACE OF ENVELOPE/COURIER PACKAGE/BOX  
RESPONSES TO MULTIPLE BID NUMBERS IN SAME ENVELOPE NOT PROPERLY IDENTIFIED  
BID RECEIVED LATE  
BID NOT SIGNED/NOT ORIGINAL SIGNATURE  
BID NOT NOTARIZED/NOT ORIGINAL SIGNATURE OF NOTARY AND/OR NO NOTARY EXPIRATION  
NOTARIZED OWN SIGNATURE  
REQUIRED INFORMATION NOT SUBMITTED WITH BID  
FAILURE TO SUBMIT THE ORIGINAL BID AND A COMPLETE EXACT COPY

CERTIFICATION PURSUANT TO ACT NO. 2006-557

ALABAMA LAW (SECTION 41-4-116, CODE OF ALABAMA 1975) PROVIDES THAT EVERY BID SUBMITTED AND CONTRACT EXECUTED SHALL CONTAIN A CERTIFICATION THAT THE VENDOR, CONTRACTOR, AND ALL OF ITS AFFILIATES THAT MAKE SALES FOR DELIVERY INTO ALABAMA OR LEASES FOR USE IN ALABAMA ARE REGISTERED, COLLECTING, AND REMITTING ALABAMA STATE AND LOCAL SALES, USE, AND/OR LEASE TAX ON ALL TAXABLE SALES AND LEASES INTO ALABAMA. BY SUBMITTING THIS BID, THE BIDDER IS HEARBY CERTIFYING THAT THEY ARE IN FULL COMPLIANCE WITH ACT NO. 2006-557, THEY ARE NOT BARRED FROM BIDDING OR ENTERING INTO A CONTRACT PURSUANT TO 41-4-116, AND ACKNOWLEDGES THAT THE AWARDING AUTHORITY MAY DECLARE THE CONTRACT VOID IF THE CERTIFICATION IS FALSE.

SPECIAL TERMS & CONDITIONS

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#### INTENT TO AWARD

EFFECTIVE MAY 1, 2008, THE STATE OF ALABAMA - DIVISION OF PURCHASING WILL ISSUE AN 'INTENT TO AWARD' BEFORE A FINAL AWARD IS MADE. THE 'INTENT TO AWARD' WILL CONTINUE FOR A PERIOD OF FIVE (5) CALENDAR DAYS, AFTER WHICH A PURCHASE ORDER WILL BE PRODUCED. UPON FINAL AWARD, ALL RIGHTS TO PROTEST ARE FORFEITED. A DETAILED EXPLANATION OF THIS PROCESS MAY BE REVIEWED IN THE ALABAMA ADMINISTRATIVE CODE - CHAPTER 355-4-1(14).

#### ALTERNATE BID RESPONSE

UNLESS STATED ELSEWHERE IN THIS INVITATION-TO-BID (ITB) THE STATE OF ALABAMA WILL ACCEPT AND EVALUATE ALTERNATE BID SUBMITTALS ON ANY ITB'S. ALTERNATE BID RESPONSES WILL BE EVALUATED ACCORDING TO THE REQUIREMENTS AS ALL OTHER RESPONSES TO THIS ITB.

#### INTERNET WEBSITE LINK'S

INTERNET AND/OR WEBSITE LINKS WILL NOT BE ACCEPTED IN BID RESPONSES AS A MEANS TO SUPPLY ANY REQUIREMENTS STATED IN THIS ITB (INVITATION-TO-BID).

#### PRODUCT DELIVERY, RECEIVING AND ACCEPTANCE

IN ACCORDANCE WITH THE UNIVERSAL COMMERCE CODE (CODE OF ALABAMA, TITLE 7), AFTER DELIVERY, THE STATE OF ALABAMA HAS THE RIGHT TO INSPECT ALL PRODUCTS BEFORE ACCEPTING. THE STATE WILL INSPECT PRODUCTS IN A REASONABLE TIMEFRAME. SIGNATURE ON A DELIVERY DOCUMENT DOES NOT CONSTITUTE ACCEPTANCE BY THE STATE. THE STATE WILL ACCEPT PRODUCTS ONLY AFTER SATISFACTORY INSPECTION.

#### SALES TAX EXEMPTION

PURSUANT TO THE CODE OF ALABAMA, 1975, TITLE 40-23-4 (A) (11), THE STATE OF ALABAMA IS EXEMPT FROM PAYING SALES TAX. AN EXEMPTION LETTER WILL BE FURNISHED UPON REQUEST.

#### INVOICES

INQUIRIES CONCERNING PAYMENT AFTER INVOICES HAVE BEEN SUBMITTED ARE TO BE DIRECTED TO THE RECEIVING AGENCY, NOT THE DIVISION OF PURCHASING

#### BID RESPONSES AND BID RESULTS

UNEVALUATED BID RESPONSES (NOT BID RESULTS) ARE AVAILABLE ON OUR WEB SITE AT WWW.PURCHASING.ALABAMA.GOV. BID RESULTS WILL BE MADE AVAILABLE FOR REVIEW IN THE DIVISION OF PURCHASING OFFICE, BUT ONLY AFTER THE BID HAS BEEN AWARDED. WE DO NOT FAX OR MAIL COPIES OF BID RESULTS. IF A VENDOR WISHES TO REVIEW BID RESULTS IN OUR OFFICE, THEY SHOULD FAX THEIR REQUEST TO REVIEW THE BID TWO DAYS IN ADVANCE TO THE "BID REVIEW CLERK" AT (334) 242-4419. BE SURE TO REFERENCE THE BID NUMBER.

#### FOREIGN CORPORATION - CERTIFICATE OF AUTHORITY

ALABAMA LAW PROVIDES THAT A FOREIGN CORPORATION (AN OUT-OF-STATE COMPANY/FIRM) MAY NOT TRANSACT BUSINESS IN THE STATE OF ALABAMA UNTIL IT OBTAINS A CERTIFICATE OF AUTHORITY FROM THE SECRETARY OF STATE. SECTION 10-2B-15.01, CODE OF ALABAMA 1975. TO OBTAIN FORMS FOR A CERTIFICATE OF AUTHORITY, CONTACT THE SECRETARY OF STATE, CORPORATIONS DIVISION, (334) 242-5324. THE CERTIFICATE OF AUTHORITY DOES NOT KEEP THE VENDOR FROM SUBMITTING A BID.

#### BID IDENTIFICATION

REFERENCE PAGE 2, ITEM 2. DUE TO THE POSTAL SERVICE PUTTING BAR CODE LABELS ON ENVELOPES, IT CONCEALS THE BID NUMBER AND DATE IF THE VENDOR HAS WRITTEN THEM OTHER THAN THE LOWER LEFT CORNER, THEREFORE THE BID WOULD BE REJECTED FOR NOT BEING PROPERLY IDENTIFIED.

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AWARD:

THE AWARD SHALL BE MADE TO THE LOWEST RESPONSIBLE BIDDER MEETING ALL SPECIFICATIONS.

FREIGHT:

BID IS F.O.B. DESTINATION. ANY FREIGHT CHARGES MUST BE INCLUDED IN THE BID PRICES.

DESCRIPTIVE LITERATURE:

THE BRAND AND MODEL NUMBER REFERENCED PROVIDE A LEVEL OF QUALITY, AND UNLESS OTHERWISE SPECIFIED, ARE NOT RESTRICTIVE. ALL VENDOR BIDDING ON THIS ITB MUST PROVIDE ANY VARIATION FROM THE SPECIFICATIONS ON A SEPARATE SHEET OF PAPER AND COMPLETE DESCRIPTIVE/TECHNICAL LITERATURE FOR CONSIDERATION AND EVALUATION WITH THEIR BID, AND WITH THE BID COPY PER ITEM NUMBER 7 ON PAGE 2. REFERENCE TO LITERATURE WITH A PREVIOUS BID WILL NOT SATISFY THIS REQUIREMENT. FAILURE TO PROVIDE THE REQUIRED LITERATURE WILL RESULT IN THE REJECTION OF YOUR BID. A PHYSICAL INSPECTION AND OPERATIONAL EVALUATION MAY ALSO BE REQUIRED WITHOUT COST OR OBLIGATION TO THE STATE OF ALABAMA.

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LINE NO.	COMMODITY/SERVICE DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
UNLESS SPECIFIED OTHERWISE BELOW:					
SHIP TO: 004008 / 004M19					
WILDLIFE & FRESHWATER FISHERIES					
JAMES D MARTIN-SKYLINE WMA					
17 MI NO OF SCOTTSBORO					
ON HWY 79					
WOODVILLE AL 35776					
00001	COMMODITY CODE: 760-33-054623 GRADER, MOTOR, ARTICULATED. NEW LATEST MODEL PER FOLLOWING SPECIFICATIONS. IN ACCORDANCE WITH MANUFACTURER'S STANDARD PUBLISHED SPECIFICATIONS.	1	EA		
MACHINE SHALL BE DESIGNED AND BUILT BY THE MANUFACTURER. TRANSMISSION SHALL BE DESIGNED AND BUILT BY THE MACHINE MANU- FACTURER. ENGINE SHALL BE A TURBO- CHARGED, DIRECT INJECTION, FOUR STROKE, 6-CYLINDER WITH AFTER COOLER DIESEL EN- GINE AND SHALL BE DESIGNED AND BUILT BY THE MANUFACTURER. BASE ENGINE SHALL REACH NO LESS THAN SAE NET HORSEPOWER IN THE GEARS 1-8 WITH 6WD ON: 1ST 170HP, 2ND 175HP, 3RD 180HP, 4TH 190HP, 5TH 190HP, 6TH 195HP, 7TH 195HP, AND 8TH 195HP. EPA TIER 3/EUROPEAN UNION STAGE IIIA ENGINE EMISSIONS SHALL BE ACHIEVED BY UTILIZING EXHAUST GAS RECIRCULATION (EGR) AND A VARIABLE GEOMETRY TURBO. ENGINE DISPLACEMENT SHALL BE NO LESS THAN 9.0 LITERS (548 CU.IN.). ENGINE SHALL HAVE A WET-SLEEVE CYLINDER LINER DESIGN. ENGINE SHALL HAVE AN ALTITUDE COMPENSATING TURBO-CHARGER AND HAVE DUAL SAFETY AIR CLEANER ELEMENTS, RADIAL SEAL, DRY TYPE. MACHINE SHALL BE EQUIP- PED WITH ELECTRONIC OVER-SPEED PROTEC- TION AS A STANDARD FEATURE. ELECTRONIC THROTTLE CONTROL (CRUISE CONTROL) SHALL BE AVAILABLE AND SHALL BE CONTROLLED BY A SWITCH LOCATED ON THE RIGHT-HAND CON- SOLE. AIR INTAKE SHALL BE PRE-SCREENED (3MM PERFORATIONS) STANDARD. CHARGED AIR COOLER SHALL BE HEAVY DUTY ALUMINUM 8 FIN PER INCH. CHARGED AIR COOLER SHALL HAVE RESTRICTION SENSOR AND IN-CAB RESTRICTION WARNING LIGHT. ENGINE FAN SHALL AUTOMATICALLY ADJUST FAN SPEED VIA A VARIABLE HYDRAULIC FAN PUMP TO MEET ENGINE COOLING REQUIREMENTS. ENGINE FAN SHALL BE ABLE TO AUTOMATICALLY REVERSE AND ALLOW THE OPERATOR TO CHOOSE THE TIME INTERVAL FOR THE REVERSAL TO OCCUR THROUGH THE VEHICULAR MONITOR.					
THE RADIATOR SHALL BE HEAVY DUTY COPPER 10 FIN PER INCH. ENGINE COOLANT SHALL BE COOL GUARD EXTENDED LIFE OR EQUIVA- LENT FOR TEMPERATURES TO -34F. COOLANT LEVELS SHALL BE EASILY CHECKED BY SIGHT GAUGES OR OVERFLOW TANK. ACCESS TO EN-					

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GINE SHALL BE OPEN FROM BOTH SIDES WITH HINGED SIDE SHIELDS AND FULL ACCESS SERVICE DOORS. FOLD-OUT COOLERS SHALL PROVIDE ACCESS FOR QUICK CLEANOUT OF DUST AND DEBRIS. MACHINE SHALL HAVE A 5000 HOUR COOLANT INTERVAL FROM FACTORY. REAR ACCESS DOOR SHALL BE PROVIDED FOR THE RADIATOR TO PROVIDE QUICK AIR CLEANOUT OF DUST AND DEBRIS. ENGINE ENCLOSURE AND DAILY SERVICE POINTS SHALL BE ACCESSIBLE FROM GROUND LEVEL AND BE GROUPED ON THE LEFT SIDE OF THE MACHINE. ENGINE COMPARTMENT DOORS SHALL BE LOCKABLE WITHOUT THE USE OF EXTERNAL LOCKS. VANDAL PROTECTION PACKAGE SHALL INCLUDE LOCKING CAB DOORS, ALL ENGINE SIDE SHIELDS, TOP TANK RADIATOR ACCESS DOOR, ENGINE COOLANT SURGE TANK, HYDRAULIC RESERVOIR CAP, FUEL TANK CAP, AND TOOL BOX.

TRANSMISSION SHALL HAVE EIGHT FORWARD AND EIGHT REVERSE SPEEDS WITH BUILT-IN DIAGNOSTICS. A GUARD SHALL PROTECT THE MACHINE'S TRANSMISSION FROM DEBRIS. TRANSMISSION SHALL HAVE FIVE WORKING GEARS BETWEEN 0-10.6 MPH (0-17 KMH). AUTO-SHIFT SHALL BE PROVIDED. MACHINE SHALL HAVE NO DRIVE SHAFTS CROSS OVER THE ARTICULATION HITCH. MACHINE SHALL BE EQUIPPED WITH AN ELECTRONIC INCHING PAD FOR IMPROVED MODULATION AND MACHINE CONTROL. TRANSMISSION SYSTEM SHALL HAVE AN INDEPENDENT OIL RESERVOIR, FILTRATION AND COOLING SYSTEM WITH A MINIMUM OF 33 GPM HYDRAULIC GEAR PUMP. TRANSMISSION SHALL BE EVENT BASED SHIFTING (EBS) OR USE LOAD SENSING ELECTRONIC SHIFT MODULATION WITH OVER SPEED PROTECTION. TRANSMISSION SHALL HAVE CLUTCH OVERHEATING PROTECTION, HAVE RUBBER ISOLATION MOUNTING, BE EQUIPPED WITH BUILT-IN SELF-DIAGNOSTIC CAPABILITY, BE ISOLATED/ RESILIENT MOUNTED, AND BE A DRIVE, POWER SHIFT, COUNTERSHAFT TYPE.

FRONT AXLE SHALL BE AN ARCHED DESIGN FOR MAXIMUM GROUND CLEARANCE. FRONT AXLE OSCILLATION SHALL BE NO LESS THAN 32 DEGREES TOTAL, PER SIDE 16 DEGREES UP, 16 DEGREES DOWN. TANDEM CHAIN PITCH SHALL NOT BE LESS THAN 2.0 IN. (50.8MM). DISTANCE BETWEEN CENTER OF TANDEM WHEELS SHALL BE NO LESS THAN 60.8 IN. (1540MM). MAXIMUM FRONT WHEEL LEAN SHALL BE NO LESS THAN 20 DEGREES LEFT OR RIGHT.

BRAKES SHALL BE INTERNAL SELF-ADJUSTING MAINTENANCE FREE, WET MULTI-DISK, INBOARD OF TANDEM PIVOT. PARKING BRAKE SHALL BE AUTOMATIC, SPRING-APPLIED, HYDRAULIC RELEASED. MACHINE SHALL HAVE PRIMARY AND

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SECONDARY SERVICE BRAKES. SERVICE BRAKES SHALL BE MULTI-DISC, OIL-COOLED, AND COMPLETELY SEALED. SERVICE BRAKES SHALL BE HYDRAULICALLY ACTUATED, UTILIZING DUAL INDEPENDENT BRAKE CIRCUITS. SERVICE BRAKE DISC SURFACES SHALL BE GROOVED AND CARRY OIL BETWEEN DISCS AND PLATES WITH BRAKES FULLY APPLIED. PARKING SHALL BE MULTI-DISC, OIL-COOLED, SPRING-APPLIED, HYDRAULICALLY RELEASED, SEALED, ADJUSTMENT-FREE, AND INTEGRATED INTO THE TRANSMISSION. PARKING BRAKE SHALL BE SERVICEABLE WITHOUT REMOVING THE TRANSMISSION. ENGAGED PARKING BRAKE SHALL NEUTRALIZE THE TRANSMISSION.

DIFFERENTIAL LOCK/UNLOCK SHALL BE ELECTRO-HYDRAULICALLY CONTROLLED, AS A STANDARD FEATURE. DIFFERENTIAL LOCK/UNLOCK SHALL NOT HAVE SPEED, SHUTTLE SHIFTING, OR TANDEM SPINNING RESTRICTIONS FOR ENGAGING/DISENGAGING. DIFFERENTIAL LOCK/UNLOCK SHALL BE A MULTI-DISC DESIGN. DIFFERENTIAL LOCK/UNLOCK CAN BE SELECTED BY OPERATOR TO BE AUTOMATIC FOR GEARS 1-4. DIFFERENTIAL HOUSING OIL FILTER SHALL HAVE 2000 HOUR SERVICE REPLACEMENT INTERVAL.

AXLES SHALL BE PLANETARY SINGLE REDUCTION FINAL DRIVE. REAR-AXLE SHALL BE BOLT-ON MODULAR DESIGN OFFERING EASY ACCESS TO DIFFERENTIAL COMPONENTS.

MOTOR GRADER SHALL HAVE AN OPTION OF UP TO SIX AUXILIARY CONTROL VALVES AND CONTROL LEVERS INTERGRATED INTO THE MAIN CONTROL RACK AND VALVE STACK, 14 POS-SIBLE CONTROL LEVERS ON MAIN CONTROL RACK. HYDRAULIC PUMP SHALL BE VARIABLE-DISPLACEMENT, AXIAL-PISTON PUMP: CLOSED-CENTER, PRESSURE-COMPENSATING SYSTEM. LEFT AND RIGHT BLADE LIFTS SHALL HAVE HYDRAULIC FLOAT CONTROL. HYDRAULIC SYSTEM SHALL HAVE A 56 GPM MAIN HYDRAULIC AXIAL PISTON PUMP AND 8 FIN PER INCH OIL COOLER. IMPLEMENT PUMP SHALL BE SOLELY DEDICATED TO IMPLEMENT CONTROLS AND NOT SHARED WITH ANY OTHER COMPONENTS. SIGHT GAUGE SHALL BE PROVIDED FOR CHECKING HYDRAULIC RESERVOIR FLUID. HYDRAULIC TANK SHALL HAVE A BAFFLING SYSTEM TO REDUCE POTENTIAL PUMP CAVITATION. HYDRAULIC SYSTEM SHALL HAVE A SEPARATE OIL TANK, SOLELY DEDICATED TO THE IMPLEMENT PUMP. HYDRAULICS SYSTEM SHALL BE A CLOSED-CENTER, LOAD SENSING TYPE, WITH A VARIABLE DISPLACEMENT, AXIAL PISTON-TYPE PUMP. MAXIMUM HYDRAULIC SYSTEM PRESSURE SHALL BE NO LESS THAN 2750 PSI (18.961 KPA). LOCK VALVES SHALL BE INTEGRATED INTO THE MAIN IMPLEMENT VALVE TO PREVENT

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CYLINDER DRIFT. STEERING CAPABILITIES  
SHALL BE ISO 5010. SECONDARY STEERING  
SHALL BE AVAILABLE.

ELECTRIC SYSTEM SHALL BE 24 VOLT WITH  
100 AMP ALTERNATOR. MACHINE SHALL HAVE  
MINIMUM OF 224 AMP-HOUR, 1400 CCA EXTRA  
HEAVY-DUTY BATTERIES WITH 440 MINUTE  
RESERVE CAPACITY. CAB SHALL HAVE A 10  
AMP CONTINUOUS / 15 AMP PEAK CAPACITY  
(24V TO 12V) CONVERTER. LED TURN SIG-  
NAL, MARKER AND BRAKE LIGHTS SHALL BE  
PROVIDED. MACHINE SHALL BE EQUIPPED  
WITH DRIVING LIGHTS, TWO HIGH AND TWO  
LOW BEAM HALOGEN HEADLIGHTS WITH FRONT  
AND REAR TURN SIGNALS, FRONT AND REAR  
MARKER LIGHTS, BRAKE LIGHTS AND HAZARD  
WARNING LIGHTS. TAIL LIGHTS SHALL BE  
MOUNTED HIGH UP IN THE REAR GRILL.  
MACHINE SHALL HAVE BACK-UP LIGHTS AND  
SOUNDING ALARM AS STANDARD WHEN REVERSE  
GEARS ARE SELECTED. MACHINE SHALL BE  
EQUIPPED WITH GAUGES FOR: ENGINE COOL-  
ANT TEMPERATURE, TRANSMISSION OIL  
TEMPERATURE, HYDRAULIC OIL TEMPERATURE,  
REAR STEER ARTICULATION ANGLE AND FUEL  
LEVEL WITH LOW LEVEL VISUAL WARNING.  
STARTING SYSTEM SHALL BE A 24V DIRECT  
ELECTRIC TYPE. IN-CAB SWITCH MODULE  
SHALL BE SEALED TO KEEP OUT DIRT, DUST  
AND AIRBORNE DEBRIS. MACHINE SHALL BE  
PROVIDED WITH GROUND LEVEL MASTER ELEC-  
TRICAL DISCONNECT SWITCH, HAVE AN ELEC-  
TRIC KEY FUEL SHUT-OFF SWITCH, AND HAVE  
A BYPASS START SAFETY COVER ON THE  
STARTER. CAB WILL BE WIRED FOR BEACON,  
RADIO AND AUXILIARY CIRCUIT.

STEERING WHEEL AND CONTROL CONSOLE SHALL  
BE TILTABLE. ERGONOMICALLY DESIGNED  
STEERING WHEEL WILL TAKE A MINIMUM OF  
5 1/4 TURNS (LOCK TO LOCK) WITHOUT  
SACRIFICING CONTROL OF THE MACHINE.  
STEERING WHEEL SHALL BE REQUIRED TO  
OPERATOR MACHINE. LEFT AND RIGHT SIDE  
CAB DOOR SHALL BE STANDARD AND DOORS  
SHALL HAVE A HOLD-OPEN CLASP WITH A  
GROUND-LEVEL RELEASE AS WELL AS A RE-  
LEASE IN THE CAB. MACHINE SHALL HAVE  
DUAL EXITS ALLOWING FOR EMERGENCY EGRESS  
SHOULD ONE SIDE BE OBSTRUCTED. CAB  
SHALL HAVE CUP HOLDER, PERSONAL COOLER  
HOLDER/STORAGE COMPARTMENT FOR OPERA-  
TOR'S MANUAL AND COME WITH A MOLDED  
FLOOR MAT. AIR VENTS SHALL BE PROVIDED  
FOR ALL FRONT AND SIDE TINTED WINDOWS.  
CAB AIR PRE-CLEANER SHALL BE INCLUDED.  
THREE REARVIEW MIRRORS SHALL BE PROVIDED  
WITH ONE INTERIOR AND TWO BREAKAWAY EX-  
TERIOR MOUNTED. AM/FM/WB RADIO INCLUD-  
ING 24V TO 12V CONVERTER, TWO SPEAKERS,  
ANTENNA AND WIRING SHALL BE INCLUDED.

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A REAR SUN SHADE SHALL BE INCLUDED. MACHINE SHALL BE EQUIPPED WITH LOW ROPS/ FOPS AIR CONDITIONED CAB, ISOLATION FRAME MOUNTED FOR NOISE AND VIBRATION REUCTION. SEAT SHALL BE A CLOTH-COVERED AIR SUSPENSION SEAT WITH A 3" (76 MM) RETRACTABLE SEAT BELT AND WITH ADJUSTMENTS FOR FORE-AFT POSITION, SEAT HEIGHT, SEAT BACK ANGLE, THIGH SUPPORT, AND LUMBAR SUPPORT. ACCESS TO CAB SHALL BE THREE ANTI-SKID STEPS. MACHINE SHALL HAVE A DECELATOR PEDAL INCLUDED. UPPER FRONT AND REAR WINDSHIELD WASHERS WITH INTERMITTENT WIPERS SHALL BE STAND-ARD.

FUEL TANK CAPACITY SHALL BE A MINIMUM OF 110 GALLONS (416 L). FUEL SYSTEM SHALL BE HIGH-PRESSURE, COMMON RAIL.

MACHINE HEIGHT TO TOP OF CAB SHALL NOT EXCEED 125 IN. (10'5" OR 3180 MM). TURNING RADIUS WILL NOT BE GREATER THAN 284 IN. (23'8" OR 7214 MM). BASE MACHINE WEIGHT, INCLUDING STANDARD MACHINE CONFIGURATION, LUBRICANTS, COOLANTS, FULL FUEL TANK AND OPERATOR (175 LBS. OR 80 KG), SHALL BE A MINIMUM OF 36060 LBS. (16371 KG). MACHINE WHEEL BASE (FRONT AXLE TO MID TANDEM) WILL BE A MINIMUM OF 20'3".

ANGLE OF ARTICULATION SHALL BE A MINIMUM OF 22 DEGREES. ARTICULATION JOINT SHALL HAVE A MECHANICAL LOCKING DEVICE TO PREVENT FRAME FROM ARTICULATION DURING SERVICING OR TRANSPORTING AND SHALL BE LOCATED BEHIND THE CAB. REAR FRAME SHALL HAVE TWO BOX SECTION CHANNELS WITH AN INTEGRATED BUMPER.

CIRCLE OUTSIDE DIAMETER SHALL BE A MINIMUM OF 60.2 IN. (1530 MM). CIRCLE SHALL BE A FABRICATED ROLLED-RING WITH MACHINED WEAR SURFACES ON THE TOP AND BOTTOM. CIRCLE TEETH CONTACT SURFACES SHALL BE INDUCTION-HARDENED ON THE FRONT 120 DEGREES OF THE CIRCLE. MACHINE SHALL HAVE A CIRCLE DRIVE SLIP CLUTCH TO PROTECT THE DRIVE PINION FROM SHOCK LOADS. MOLDBOARD SHALL BE PRE-STREESED DURING MANUFACTURING FOR SUPERIOR STRENGHT AND DURABILITY. MOLDBOARD SHALL HAVE QUICK CHANGE CIRCLE WEAR AND SIDE SHIFT WEAR INSERTS. MOLDBOARD SHALL HAVE A BANK SLOPE ANGLE CAPABILITY OF AT LEAST 90 DEGREES TO BOTH SIDES. MOLDBOARD SIDE RAILS SHALL BE CONSTRUTED OF A HEAT-TREATED, HIGH CARBON STEEL. MOLDBOARD SHALL HAVE A HYDRAULIC TIP CONTROL THROUGH A RANGE OF AT LEAST 42 DEGREES FORE AND 5 DEGREES AFT.

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DAILY CHECK POINTS SHALL BE ACCESSIBLE FROM THE LEFT SIDE OF THE ENGINE AND SHALL BE DONE FROM GROUND LEVEL. DIP STICK FOR TRANSMISSION FLUID SHALL BE AT GROUND LEVEL. ENGINE SHALL HAVE ENVIRONMENTALLY FRIENDLY FUEL DRAIN VALVES AND ENVIRONMENTAL DRAIN PROVISIONS SHALL BE PROVIDED FOR THE HYDRAULIC OIL, ENGINE OIL, ENGINE COOLANT, TRANSMISSION FLUID, DIFFERENTIAL FLUID, AND FUEL TANK. ENGINE OIL FILTER SHALL BE A 500-HOUR, VERTICAL SPIN-ON TYPE. ENGINE PRIMARY AND FINAL FUEL FILTERS SHALL HAVE 500-HOUR SERVICE REPLACEMENT INTERVAL. ENGINE SHALL HAVE PRIMARY FUEL FILTER WITH FUEL WATER SEPARATOR AND ELECTRONIC SENSOR, QUICK RELEASE DUAL STAGE FILTER AND PRIMER PUMP. HYDRAULIC, TRANSMISSION AND DIFFERENTIAL FILTERS SHALL BE BANKED AND EASILY ACCESSIBLE THROUGH THE ENGINE COMPARTMENT DOORS. HYDRAULIC FILTER SHALL HAVE A SERVICE INTERVAL OF A MINIMUM OF 2000 HOURS. HYDRAULIC OIL CHANGE INTERVAL SHALL BE A MINIMUM OF 4000 HOURS. TRANSMISSION FILTER RESTRICTION INDICATOR SHALL BE DISPLAYED IN THE CAB. TRANSMISSION OIL FILTER SERVICE REPLACEMENT INTERVAL SHALL BE A MINIMUM OF 2000 HOURS. CENTRALIZED LUBE BANK SHALL BE AT THE ARTICULATION JOINT. SAMPLING PORTS SHALL BE ACCESSIBLE FROM THE TANDEN LEVEL AND PROVIDE ACCESS TO ENGINE, HYDRAULIC, COOLANT, AND FUEL PORTS. 10 IN. (25.4 CM) BY 24 IN. (60.96 CM) SIZE MULTI-PIECE TIRE RIMS SHALL BE AVAILABLE TO PROVIDE FOR 14.00R24 TIRES.

6 WHEEL-DRIVE SHALL OPERATE IN GEARS 1 THROUGH 4. AN INCHING PEDAL OR CLUTCH SHALL CONTROL ALL SIX WHEEL AND WILL BE ABLE TO HAVE ALL SIX WHEELS START FROM A STOP SIMULTANEOUSLY. MACHINE SHALL BE EQUIPPED WITH A 15 POSITION AGGRESSIVENESS CONTROL WHICH OPERATOR CAN SELECT BASED ON THE APPLICATION. FOR THE ALL WHEEL DRIVE SYSTEM, EACH FRONT WHEEL SHALL BE POWERED UTILIZING A DEDICATED VARIABLE AXIAL PISTON PUMP AND VARIABLE AXIAL PISTON MOTOR. BOTH PUMPS AND MOTORS SHALL BE INFINITELY VARIABLE TO PROVIDE MAXIMUM TORQUE IN EVERY GEAR.

STANDARD BLACK GLARE-REDUCING PAINT SHALL BE USED ON THE FRONT FRAME AND ENGINE ENCLOSURE TO DECREASE GLARE FROM OTHER EQUIPMENT LIGHTS AND REFLECTION FROM THE SUN. ENGINE SHALL BE RUBBER MOUNTED TO REDUCE NOISE AND VIBRATION. MACHINE SHALL HAVE A FAN FINGER GUARD AND FIVE PERMANENT AND USABLE TIE DOWNS

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FOR TRANSPORT. A TOOLBOX AND 5 LB. FIRE  
EXTINGUISHER SHALL BE PROVIDED. BEACON  
LIGHT AND SLOW MOTION EMBLEM SHALL BE  
PROVIDED.

A FRONT BLADE MUST BE PROVIDED.

REAR RIPPER MUST BE PROVIDED AND MUST  
HAVE AT LEAST FIVE RIPPER SHANK HOLDERS  
AND A WORKING PENETRATION OF AT LEAST  
16.8 INS.

MUST PROVIDE ONE SET OF PART AND SERVICE  
MANUALS AND THREE (3) SETS OF KEYS.

WARRANTY

STANDARD MANUFACTURER'S WARRANTY

EXTENDED WARRANTY  
5 YEAR/2000 HOUR WARRANTY FOR POWERTRAIN  
AND HYDRAULICS

MFR \_\_\_\_\_ MODEL \_\_\_\_\_  
MODEL: JOHN DEERE 672GP OR EQUAL

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